



Wunder-Mold

Creating Quality Standards for the Industry

Ceramic Injection Molding

Precision Injection Molding

WM-960-AI

96.0% Aluminum Oxide Ceramic

WM-998-AI is a 96.0% Aluminum Oxide Ceramic. It has adequate strength coupled with excellent hardness and wear resistance. This is a material that can be metalized easily. Components made from this material are used in but are not limited to: Medical Components, Wear Resistant Parts, Aerospace Applications and Consumer Products.

Physical Properties

| | | |
|-------------------------|---|------------------------|
| Color | - | White |
| Sintered Density | - | ≥ 3.80 g/cc |
| Bending Strength | - | 400 MPa |
| Compressive Strength | - | 2000 MPa |
| Fracture Toughness (NB) | - | 4.0 MPa ^{1/2} |
| Hardness | - | 1500 (HV10) |
| Thermal Conductivity | - | 25 W/m*K |

Chemical Properties

| | | |
|--------------------------------|---|-----------------|
| Al ₂ O ₃ | - | ≥ 96.0 wt% |
| SiO ₂ | - | ≤ 2.10 wt% |
| CaO | - | < 1.50 wt% |
| MgO | - | < 0.07 wt% |
| BaO | - | < 0.04 wt% |

These numbers are typical values for the properties listed. Depending on the end shape and environment, these values may be slightly different. Any questions and or for recommendations on how to design your Ceramic Injection Molded Parts, please contact our Design Engineers at Wunder Mold

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